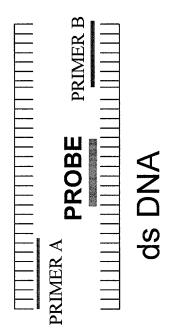
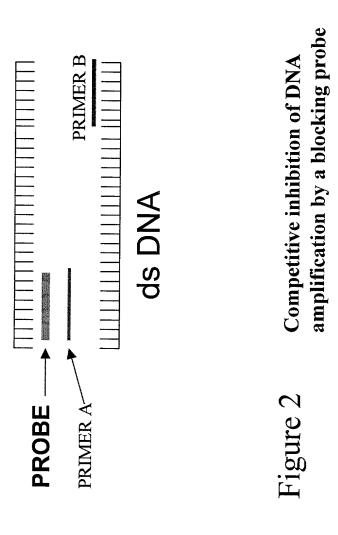
Title: Detection and Typing of Human Papillomavirus Using PNA Probes Inventor(s): Cohenford et al. Serial No. Not Yet Assigned Docket No. CYM-035 Atty: Joseph A. Capraro Express Mail No. EL653444078US



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Lane 1: DNA Ladder

Lane 2: HPV DNA Strain 11, in absence of PNA

Lane 3: HPV DNA Strain 16, in absence of PNA Lane 4: HPV DNA Strain 18, in absence of PNA

Lane 5: HPV DNA Strain 11 in presence of PNA I

Lane 6: HPV DNA Strain 16

Lane 7: HPV DNA Strain 18 in presence of PNA I

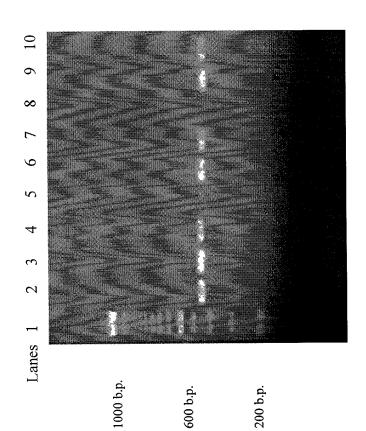
Lane 8: HPV DNA Strain 11 win presence of PNA I

in presence of PNA II

Lane 9: HPV DNA Strain 16 in presence of PNA II

Lane 10: HPV DNA Strain 18 in presence of PNA II Selective PCR amplification of HPV DNA using PNA blocking probes

Figure 3



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Lanes

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Lane 1- DNA negative control

Lane 2- HPV DNA Strain 18 in presence of 1uM PNA III

Lane 3- HPV DNA Strain 18 in presence of 10uM PNA III

Lane 4-HPV DNA Strain 18 in absence of PNA III

Lane 5- DNA ladder

100 b.p. 400 b.p. 1000 b.p.

Effect of PNA concentration on HPV DNA (STRAIN 18) PCR

Figure 4